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09/071,298	05/01/1998	TAPANI J. OTALA	36C.P154	5353

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FITZPATRICK CELLA HARPER & SCINTO
30 ROCKEFELLER PLAZA
NEW YORK, NY 10112

EXAMINER

HANNETT, JAMES M

ART UNIT	PAPER NUMBER
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2612

DATE MAILED: 06/18/2003

43

Please find below and/or attached an Office communication concerning this application or proceeding.

2

Office Action Summary

Application No.

09/071,298

Applicant(s)

OTALA, TAPANI J. 

Examiner

James M Hannett

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-68 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-68 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 April 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-68 have been considered but are moot in view of the new ground(s) of rejection.

Giza teaches the method Claimed, however does not teach that the process is automated. However, the method needs to be performed manually due to the lack of computer software that would enable the process to be automated. As stated in the previous office action Giza in view of Petzold teaches that it would have been obvious to one of ordinary skill in the art at the time the invention was made to automate the process of Giza.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1: Claims 1-7, 17-27, 37-43, 54-58, 53, and 68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giza in view of Petzold.

As for Claim 1, Giza teaches on Slide 1 a method for outputting camera-formatted data to a digital camera interface. Giza teaches that the camera-formatted data corresponds to application-formatted data from an application program such as PowerPoint. Giza teaches a method that includes the steps of:

Starting a print operation for an application by invoking the print screen command,
Copying the application –formatted data from an application program to a selected graphics

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program, Forming the camera-formatted data based on the application-formatted data and according to a digital camera format by saving the image data as a JPEG file to be compatible with the Casio QV camera, and outputting the camera-formatted data to a digital camera interface by uploading the files to the Casio QV camera. Giza teaches that image data can be transferred to a camera using a print command in Microsoft Windows. However, The process needs to be performed manually do to the lack of a print driver or automated program code that would convert the application data into the appropriate data format needed for the Casio QV camera.

Giza does not teach an automated method that can be performed by selecting a camera driver corresponding to the digital camera as an output device driver for a print operation, Or the step of printing the application-formatted data from the application program to the selected camera driver.

Petzold teaches that by starting a print operation in an application, a print driver can be selected that corresponds to the printer as an output device driver for a print operation. Petzold teaches that the application-formatted data is then sent or printed from the application program to the selected printer driver. Petzold teaches that this process will form the printer-formatted data based on the application-formatted data and according to a printer format. Petzold further teaches that the printer-formatted data is then output from the printer driver to the printer or printer interface.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the printing method of Petzold to incorporate a printer or camera driver for the digital camera of Giza in order to automate the process required to translate

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application formatted data into digital camera formatted data after a print screen or print operation command is invoked. Therefore, enabling a digital camera to be seen by Microsoft Windows as a device masquerading as a printer.

2: As for Claim 2, Giza in view of Petzold teaches the claimed invention as discussed in Claim 1. Petzold further teaches on Page 789 that device drivers corresponding to a desired printer or device masquerading as a printer can be selected through the use of a dialog box invoked by a print operation in an application program.

3: In regards to Claims 3 and 4, Giza in view of Petzold teaches the claimed invention as discussed in Claim 1. Petzold further teaches on Page 789 that a computer system can have a plurality of printers or devices masquerading as printers. Petzold teaches that only one device can be selected as the default device. Therefore, the camera driver as taught by Giza in view of Petzold in Claim 1 could be selected as the default output device among the plurality of output devices as taught by Petzold.

4: As for Claim 5, Giza in view of Petzold teaches the claimed invention as discussed in Claim 1. Petzold further teaches on Page 784 that application-formatted data is printed to the selected device driver through a graphical device interface module.

5: As for Claim 6, Giza in view of Petzold teaches the claimed invention as discussed in Claim 5. Petzold teaches on Page 785 that printer-formatted data is output from the device driver to the printer through the graphical device interface module.

6: As for Claim 7, Giza in view of Petzold teaches the claimed invention as discussed in Claim 6. Petzold further teaches in Chapter 15 that application-formatted data comprises graphical device interface commands.

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7: In regards to Claim 17, Giza in view of Petzold teaches the claimed invention as discussed in Claim 1. Petzold further teaches on Page 785 that printers or devices masquerading as a printer such as digital cameras as discussed above in

Claim 1 can be attached to a computer locally or through a network connection.

8: As for Claim 18, Claim 18 is considered substantively equivalent to Claim 1.

9: As for Claim 19, Claim 19 is considered substantively equivalent to Claim 2.

10: As for Claim 20, Claim 20 is considered substantively equivalent to Claim 3.

11: As for Claim 21, Claim 21 is considered substantively equivalent to Claim 5.

12: As for Claim 22, Claim 22 is considered substantively equivalent to Claim 7.

13: As for Claim 23, Claim 23 is considered substantively equivalent to Claim 1.

14: As for Claim 24, Claim 24 is considered substantively equivalent to Claim 4.

15: As for Claim 25, Claim 25 is considered substantively equivalent to Claim 5.

16: As for Claim 26, Claim 26 is considered substantively equivalent to Claim 6.

17: As for Claim 27, Claim 27 is considered substantively equivalent to Claim 7.

18: As for Claim 54, Claim 54 is considered substantively equivalent to Claim 1.

19: As for Claim 55, Claim 55 is considered substantively equivalent to Claim 4.

20: As for Claim 56, Claim 56 is considered substantively equivalent to Claim 5.

21: As for Claim 57, Claim 57 is considered substantively equivalent to Claim 6.

22: As for Claim 58, Claim 58 is considered substantively equivalent to Claim 7.

23: As for Claim 68, Claim 68 is rejected for reasons discussed related to Claim 1.

24: In regards to Claim 37, Giza teaches on Slide 1 a method for outputting camera-formatted data to a digital camera interface. Giza teaches that the camera-formatted data corresponds to

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application-formatted data from an application program such as PowerPoint. Giza teaches a method that includes the steps of:

Starting a print operation for an application by invoking the print screen command, Copying the application –formatted data from an application program to a selected graphics program, Forming the camera-formatted data based on the application-formatted data and according to a digital camera format by saving the image data as a JPEG file to be compatible with the Casio QV camera, and outputting the camera-formatted data to a digital camera interface by uploading the files to the Casio QV camera. Giza teaches that image data can be transferred to a camera using a print command in Microsoft Windows. However, The process needs to be performed manually do to the lack of a print driver or automated program code that would convert the application data into the appropriate data format needed for the Casio QV camera. Furthermore, it is inherent in the design of the above invention that it would require a memory including a region for storing executable process steps and a processor for executing the executable process steps

Giza does not teach an automated method that can be performed by selecting a camera driver corresponding to the digital camera as an output device driver for a print operation, Or the step of printing the application-formatted data from the application program to the selected camera driver.

Petzold teaches that by starting a print operation in an application, a print driver can be selected that corresponds to the printer as an output device driver for a print operation. Petzold teaches that the application-formatted data is then sent or printed from the application program to the selected printer driver. Petzold teaches that this process will form the printer-formatted data

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based on the application-formatted data and according to a printer format. Petzold further teaches that the printer-formatted data is then output from the printer driver to the printer or printer interface.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the printing method of Petzold to incorporate a printer or camera driver for the digital camera of Giza in order to automate the process required to translate application formatted data into digital camera formatted data after a print screen or print operation command is invoked. Therefore, enabling a digital camera to be seen by Microsoft Windows as a device masquerading as a printer.

25: As for Claim 38, Giza in view of Petzold teaches the claimed invention as discussed in Claim 37. Petzold further teaches on Page 789 that device drivers corresponding to a desired printer or device masquerading as a printer can be selected through the use of a dialog box invoked by a print operation in an application program.

26: In regards to Claims 39 and 40, Giza in view of Petzold teaches the claimed invention as discussed in Claim 37. Petzold further teaches on Page 789 that a computer system can have a plurality of printers or devices masquerading as printers. Petzold teaches that only one device can be selected as the default device. Therefore, the camera driver as taught by Giza in view of Petzold in Claim 37 could be selected as the default output device among the plurality of output devices as taught by Petzold.

27: As for Claim 41, Giza in view of Petzold teaches the claimed invention as discussed in Claim 37. Petzold further teaches on Page 784 that application-formatted data is printed to the selected device driver through a graphical device interface module.

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28: As for Claim 42, Giza in view of Petzold teaches the claimed invention as discussed in Claim 41. Petzold teaches on Page 785 that printer-formatted data is output from the device driver to the printer through the graphical device interface module.

29: As for Claim 43, Giza in view of Petzold teaches the claimed invention as discussed in Claim 42. Petzold further teaches in Chapter 15 that application-formatted data comprises graphical device interface commands.

30: In regards to Claim 53, Giza in view of Petzold teaches the claimed invention as discussed in Claim 37. Petzold Further teaches on Page 785 that printers or devices masquerading as a printer such as digital cameras as discussed above in Claim 37 can be attached to a computer locally or through a network connection.

31: Claims 8-11, 28-31, 44-47, and 59-62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giza in view of Petzold in further view of USPN 5,164,831 Kuchta et al.

32: As for Claim 8, Giza in view of Petzold teaches the claimed invention as discussed in Claim 7. Giza teaches that the Casio QV camera can receive a raster image wherein the format for the raster image comprises a JPEG file format. Giza does not discuss a camera having the ability to receive camera-formatted data comprising a raster image and a thumbnail image.

Kutchta et al teaches in Figure 2B and on Column 2, Lines 20-32 that it is advantageous for a digital camera to have the capability to process camera-formatted data comprised of a raster image and a thumbnail image. Kutchta et al teaches that since thumbnail images are easily and quickly accessed, reviewing and displaying of images are extremely fast.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to enable the digital camera of Giza to store and process both a raster image

and a thumbnail image as taught by Kutchta et al in order to allow a user to easily and quickly access, review and display images.

33: As for Claim 9, Giza in view of Petzold in further view of Kutchta et al teaches the claimed invention as discussed in Claim 8. Giza in view of Petzold teaches the method of forming a JPEG raster image based on the graphical device interface commands.

Giza in view of Petzold does not teach the method of forming the thumbnail image based on the raster image, and formatting and compressing the raster image and thumbnail image according to the digital camera format.

Kutchta et al teaches on Column 4, Lines 53-63 that it is advantageous to form a thumbnail image based on the raster image and to format and compress the raster image and thumbnail image according to a digital camera format.

34: In regards to Claim 10, Giza in view of Petzold in further view of Kutchta et al teaches the claimed invention as discussed in Claim 9. Kutchta et al teaches on Column 4, a format for the raster image, thumbnail image, and for the relational information that relates the thumbnail image to the raster image.

35: In regards to Claim 11, Giza in view of Petzold in further view of Kutchta et al teaches the claimed invention as discussed in Claim 10.

Giza teaches that the file format for the raster image is a JPEG file. Giza in view of Petzold in further view of Kutchta teaches the method of forming the thumbnail image based on the raster image. Therefore, causing the thumbnail image to be comprised of a JPEG File.

Kutchta teaches on Column 4, Lines 52-68 that each thumbnail file occupies a defined area near

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the beginning of each raster image file. Therefore, comprising the format for disposing the relational information in the thumbnail file.

36: As for Claim 28, Claim 28 is considered substantively equivalent to Claim 8.

37: As for Claim 29, Claim 29 is considered substantively equivalent to Claim 9.

38: As for Claim 30, Claim 30 is considered substantively equivalent to Claim 10.

39: As for Claim 31, Claim 31 is considered substantively equivalent to Claim 11.

40: As for Claim 44, Giza in view of Petzold teaches the claimed invention as discussed in Claim 43. Giza teaches that the Casio QV camera can receive a raster image wherein the format for the raster image comprises a JPEG file format. Giza does not discuss a camera having the ability to receive camera-formatted data comprising a raster image and a thumbnail image.

Kutchta et al teaches in Figure 2B and on Column 2, Lines 20-32 that it is advantageous for a digital camera to have the capability to process camera-formatted data comprised of a raster image and a thumbnail image. Kutchta et al teaches that since thumbnail images are easily and quickly accessed, reviewing and displaying of images are extremely fast.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to enable the digital camera of Giza to store and process both a raster image and a thumbnail image as taught by Kutchta et al in order to allow a user to easily and quickly access, review and display images.

41: As for Claim 45, Giza in view of Petzold in further view of Kutchta et al teaches the claimed invention as discussed in Claim 44. Giza in view of Petzold teaches the method of forming a JPEG raster image based on the graphical device interface commands.

Giza in view of Petzold does not teach the method of forming the thumbnail image based on the raster image, and formatting and compressing the raster image and thumbnail image according to the digital camera format.

Kutchta et al teaches on Column 4, Lines 53-63 that it is advantageous to form a thumbnail image based on the raster image and to format and compress the raster image and thumbnail image according to a digital camera format.

42: In regards to Claim 46, Giza in view of Petzold in further view of Kutchta et al teaches the claimed invention as discussed in Claim 45. Kutchta et al teaches on Column 4, a format for the raster image, thumbnail image, and for the relational information that relates the thumbnail image to the raster image.

43: In regards to Claim 47, Giza in view of Petzold in further view of Kutchta et al teaches the claimed invention as discussed in Claim 46.

Giza teaches that the file format for the raster image is a JPEG file. Giza in view of Petzold in further view of Kutchta teaches the method of forming the thumbnail image based on the raster image. Therefore, causing the thumbnail image to be comprised of a JPEG File. Kutchta teaches on Column 4, Lines 52-68 that each thumbnail file occupies a defined area near the beginning of each raster image file. Therefore, comprising the format for disposing the relational information in the thumbnail file.

44: As for Claim 59, Claim 59 is considered substantively equivalent to Claim 8.

45: As for Claim 60, Claim 60 is considered substantively equivalent to Claim 9.

46: As for Claim 61, Claim 61 is considered substantively equivalent to Claim 10.

47: As for Claim 62, Claim 62 is considered substantively equivalent to Claim 11.

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48: Claims 12-16, 32-36, 48-52, and 63-67 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giza in view of Petzold in view of USPN 5,164,831 Kuchta et al in further view of USPN 6,275,260 Anderson.

49: As for Claim 12, Giza in view of Petzold in further view of Kutchta et al teaches the claimed invention as discussed in Claim 11. Kutchta et al does not specifically discuss a method for naming data for the raster image and for naming the data for the thumbnail image. Anderson teaches on Column 6, Lines 54-67 and in Figure 10A the use of image tags with a text option (810) so that a user can add data to an image file regarding information such as media types, whether the image is a panoramic image, also information regarding the thumbnail image. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to add the image tag field convention of Anderson to the file format of Giza in view of Petzold in further view of Kutchta et al in order to allow a user to add data to an image file regarding information such as media types, whether the image is a panoramic image, and information regarding the thumbnail image.

50: As for Claim 13, Giza in view of Petzold in view of Kutchta et al in further view of Anderson teaches the claimed invention as discussed in claim 12. Anderson further depicts in Figure 10A and teaches on Column 8, Lines 41-47 a method wherein a digital camera format comprises a format for storing non-image data.

51: As for Claim 14, Giza in view of Petzold in view of Kutchta et al in further view of Anderson teaches the claimed invention as discussed in claim 13. Anderson further depicts in Figure 10A and teaches on Column 8, Lines 41-47 that the non-image data can be comprised of a time-date stamp (800). Anderson teaches on Column 6, Lines 54-67 that a user can add data to

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an image file regarding information such as media types or (types of application programs).

Anderson further teaches the use of image tags with a text option (810) so that a user can add data to an image file of any user desired text, such as ownership information.

52: In regards to Claim 15, Giza in view of Petzold in view of Kutchta et al in further view of Anderson teaches the claimed invention as discussed in claim 13. Anderson Further teaches on Column 6, Lines 3-15 that the non-image information can also include a sound file if a sound clip has been attached to the image file.

53: As for Claim 16, Giza in view of Petzold in view of Kutchta et al in further view of Anderson teaches the claimed invention as discussed in claim 15. Anderson Further teaches on Column 1, Lines 42-56 that after a digital camera processor processes and compresses raw image data into JPEG image files, the processor stores the JPEG image files into an internal memory or on an external memory card.

54: As for Claim 32, Claim 32 is considered substantively equivalent to Claim 12.

55: As for Claim 33, Claim 33 is considered substantively equivalent to Claim 13.

56: As for Claim 34, Claim 34 is considered substantively equivalent to Claim 14.

57: As for Claim 35, Giza in view of Petzold in view of Kutchta et al in further view of Anderson teaches the claimed invention as discussed in claim 34. Anderson Further teaches on Column 6, Lines 3-15 that the non-image information can also include a sound file if a sound clip has been attached to the image file.

58: As for Claim 36, Claim 36 is considered substantively equivalent to Claim 16.

59: As for Claim 48, Giza in view of Petzold in further view of Kutchta et al teaches the claimed invention as discussed in Claim 47. Kutchta et al does not specifically discuss a method

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for naming data for the raster image and for naming the data for the thumbnail image. Anderson teaches on Column 6, Lines 54-67 and in Figure 10A the use of image tags with a text option (810) so that a user can add data to an image file regarding information such as media types, whether the image is a panoramic image, also information regarding the thumbnail image. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to add the image tag field convention of Anderson to the file format of Giza in view of Petzold in further view of Kutchta et al in order to allow a user to add data to an image file regarding information such as media types, whether the image is a panoramic image, and information regarding the thumbnail image.

60: As for Claim 49, Giza in view of Petzold in view of Kutchta et al in further view of Anderson teaches the claimed invention as discussed in claim 48. Anderson further depicts in Figure 10A and teaches on Column 8, Lines 41-47 a method wherein a digital camera format comprises a format for storing non-image data.

61: In regards to Claim 50, Giza in view of Petzold in view of Kutchta et al in further view of Anderson teaches the claimed invention as discussed in claim 49. Anderson further depicts in Figure 10A and teaches on Column 8, Lines 41-47 that the non-image data can be comprised of a time-date stamp (800). Anderson teaches on Column 6, Lines 54-67 that a user can add data to an image file regarding information such as media types or (types of application programs). Anderson further teaches the use of image tags with a text option (810) so that a user can add data to an image file of any user desired text, such as ownership information.

62: In regards to Claim 51, Giza in view of Petzold in view of Kutchta et al in further view of Anderson teaches the claimed invention as discussed in claim 49. Anderson Further teaches on

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Column 6, Lines 3-15 that the non-image information can also include a sound file if a sound clip has been attached to the image file.

63: As for Claim 52, Giza in view of Petzold in view of Kutchta et al in further view of Anderson teaches the claimed invention as discussed in claim 37. Anderson Further teaches on Column 1, Lines 42-56 that after a digital camera processor processes and compresses raw image data into JPEG image files, the processor stores the JPEG image files into an internal memory or on an external memory card.

64: As for Claim 63, Claim 63 is considered substantively equivalent to Claim 12.

65: As for Claim 64, Claim 64 is considered substantively equivalent to Claim 13.

66: As for Claim 65, Claim 65 is considered substantively equivalent to Claim 14.

67: As for Claim 66, Giza in view of Petzold in view of Kutchta et al in further view of Anderson teaches the claimed invention as discussed in claim 65. Anderson Further teaches on Column 6, Lines 3-15 that the non-image information can also include a sound file if a sound clip has been attached to the image file.

68: As for Claim 67, Giza in view of Petzold in view of Kutchta et al in further view of Anderson teaches the claimed invention as discussed in claim 65. Anderson Further teaches on Column 1, Lines 42-56 that after a digital camera processor processes and compresses raw image data into JPEG image files, the processor stores the JPEG image files into an internal memory or on an external memory card.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to James M Hannett whose telephone number is 703-305-7880. The examiner can normally be reached on 8:00 am to 5:00 pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on 703-305-4929. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-842-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to customer service whose telephone number is 703-308-6789.

James Hannett
Examiner
Art Unit 2612

JMH
June 4, 2003


WENDY R. GARBER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600